FIG. 1

```
  1  GCCCTGCTTGTAGTGTTCACCAGATCGCAGCGCAAGAACCTGTTCACTGAGATGCATGAG  60
 61  CAGCTGGGCTCTGCAGAGGCTGCGGGAGCCGAGGGGTCATGGCCAGCGCCGTCGGGCTCC 120
121  CAGACGCCGGGTCTTGGCTGCCCTCGCCCGGCCGCCGGCGGCGACGCACCGCCTTCGCCA 180
         A  G  S  W  L  P  S  P  G  R  R  R  R  R  T  A  F  A  S
181  GCCGTCACGGCAAGCGACATGGCAAGAAGTCCAGGCTGCGCTGCAGCAGAAAGCCTCTGC 240
       R  H  G  K  R  H  G  K  K  S  R  L  R  C  S  R  K  P  L  H
241  ACGTGAATTTTAAGGAGTTAGGCTGGGACGACTGGATTATCGCGCCCCTAGAGTACGAGG 300
       V  N  F  K  E  L  G  W  D  D  W  I  I  A  P  L  E  Y  E  A
301  CCTATCACTGCGAGGGCGTGTGCGACTTTCCGCTGCGCTCGCACCTTGAGCCCACTAACC 360
       Y  H  C  E  G  V  C  D  F  P  L  R  S  H  L  E  P  T  N  H
361  ATGCCATCATTCAGACGCTGATGAACTCCATGGACCCGGGCTCCACCCCGCCTAGCTGCT 420
       A  I  I  Q  T  L  M  N  S  M  D  P  G  S  T  P  P  S  C  C
421  GCGTTCCCACCAAACTGACTCCCATTAGCATCCTGTACATCGACGCGGGCAATAATGTAG 480
       V  P  T  K  L  T  P  I  S  I  L  Y  I  D  A  G  N  N  V  V
481  TCTACAAGCAGTATGAGGACATGGTGGTGGAGTCCTGCGGCTGTAGGTAG  530
       Y  K  Q  Y  E  D  M  V  V  E  S  C  G  C  R  *
```

FIG. 2

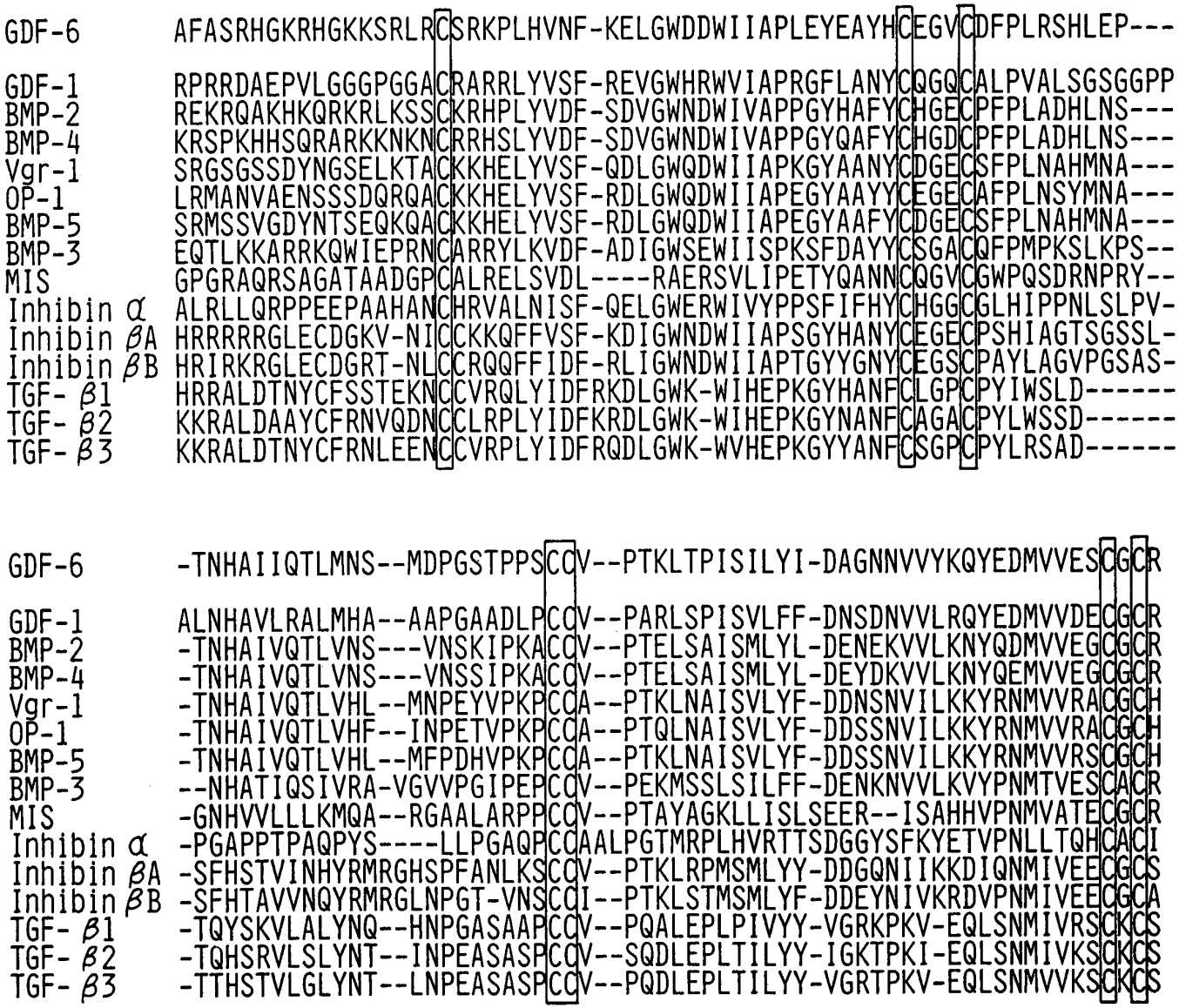
GDF-6 AFASRHGKRHGKKSRLRCSRKPLHVNF-KELGWDDWIIAPLEYEAYHCEGVCDFPLRSHLEP---
GDF-1 RPRRDAEPVLGGGPGGACRARRLYVSF-REVGWHRWVIAPRGFLANYCQGQCALPVALSGSGGPP
BMP-2 REKRQAKHKQRKRLKSSCKRHPLYVDF-SDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNS---
BMP-4 KRSPKHHSQRARKKNKNCRRHSLYVDF-SDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNS---
Vgr-1 SRGSGSSDYNGSELKTACKKHELYVSF-QDLGWQDWIIAPKGYAANYCDGECSFPLNAHMNA---
OP-1 LRMANVAENSSSDQRQACKKHELYVSF-RDLGWQDWIIAPEGYAAYYCEGECAFPLNSYMNA---
BMP-5 SRMSSVGDYNTSEQKQACKKHELYVSF-RDLGWQDWIIAPEGYAAFYCDGECSFPLNAHMNA---
BMP-3 EQTLKKARRKQWIEPRNCARRYLKVDF-ADIGWSEWIISPKSFDAYYCSGACQFPMPKSLKPS--
MIS GPGRAQRSAGATAADGPCALRELSVDL----RAERSVLIPETYQANNCQGVCGWPQSDRNPRY--
Inhibin α ALRLLQRPPEEPAAHANCHRVALNISF-QELGWERWIVYPPSFIFHYCHGGCGLHIPPNLSLPV-
Inhibin βA HRRRRRGLECDGKV-NICCKKQFFVSF-KDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSL-
Inhibin βB HRIRKRGLECDGRT-NLCCRQQFFIDF-RLIGWNDWIIAPTGYYGNYCEGSCPAYLAGVPGSAS-
TGF- β1 HRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWK-WIHEPKGYHANFCLGPCPYIWSLD------
TGF- β2 KKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWK-WIHEPKGYNANFCAGACPYLWSSD------
TGF- β3 KKRALDTNYCFRNLEENCCVRPLYIDFRQDLGWK-WVHEPKGYYANFCSGPCPYLRSAD------
GDF-6 -TNHAIIQTLMNS--MDPGSTPPSCCV--PTKLTPISILYI-DAGNNVVYKQYEDMVVESCGCR
GDF-1 ALNHAVLRALMHA--AAPGAADLPCCV--PARLSPISVLFF-DNSDNVVLRQYEDMVVDECGCR
BMP-2 -TNHAIVQTLVNS---VNSKIPKACCV--PTELSAISMLYL-DENEKVVLKNYQDMVVEGCGCR
BMP-4 -TNHAIVQTLVNS---VNSSIPKACCV--PTELSAISMLYL-DEYDKVVLKNYQEMVVEGCGCR
Vgr-1 -TNHAIVQTLVHL--MNPEYVPKPCCA--PTKLNAISVLYF-DDNSNVILKKYRNMVVRACGCH
OP-1 -TNHAIVQTLVHF--INPETVPKPCCA--PTQLNAISVLYF-DDSSNVILKKYRNMVVRACGCH
BMP-5 -TNHAIVQTLVHL--MFPDHVPKPCCA--PTKLNAISVLYF-DDSSNVILKKYRNMVVRSCGCH
BMP-3 --NHATIQSIVRA-VGVVPGIPEPCCV--PEKMSSLSILFF-DENKNVVLKVYPNMTVESCACR
MIS -GNHVVLLLKMQA--RGAALARPPCCV--PTAYAGKLLISLSEER--ISAHHVPNMVATECGCR
Inhibin α -PGAPPTPAQPYS----LLPGAQPCCAALPGTMRPLHVRTTSDGGYSFKYETVPNLLTQHCACI
Inhibin βA -SFHSTVINHYRMRGHSPFANLKSCCV--PTKLRPMSMLYY-DDGQNIIKKDIQNMIVEECGCS
Inhibin βB -SFHTAVVNQYRMRGLNPGT-VNSCCI--PTKLSTMSMLYF-DDEYNIVKRDVPNMIVEECGCA
TGF- β1 -TQYSKVLALYNQ--HNPGASAAPCCV--PQALEPLPIVYY-VGRKPKV-EQLSNMIVRSCKCS
TGF- β2 -TQHSRVLSLYNT--INPEASASPCCV--SQDLEPLTILYY-IGKTPKI-EQLSNMIVKSCKCS
TGF- β3 -TTHSTVLGLYNT--LNPEASASPCCV--PQDLEPLTILYY-VGRTPKV-EQLSNMVVKSCKCS

FIG. 3

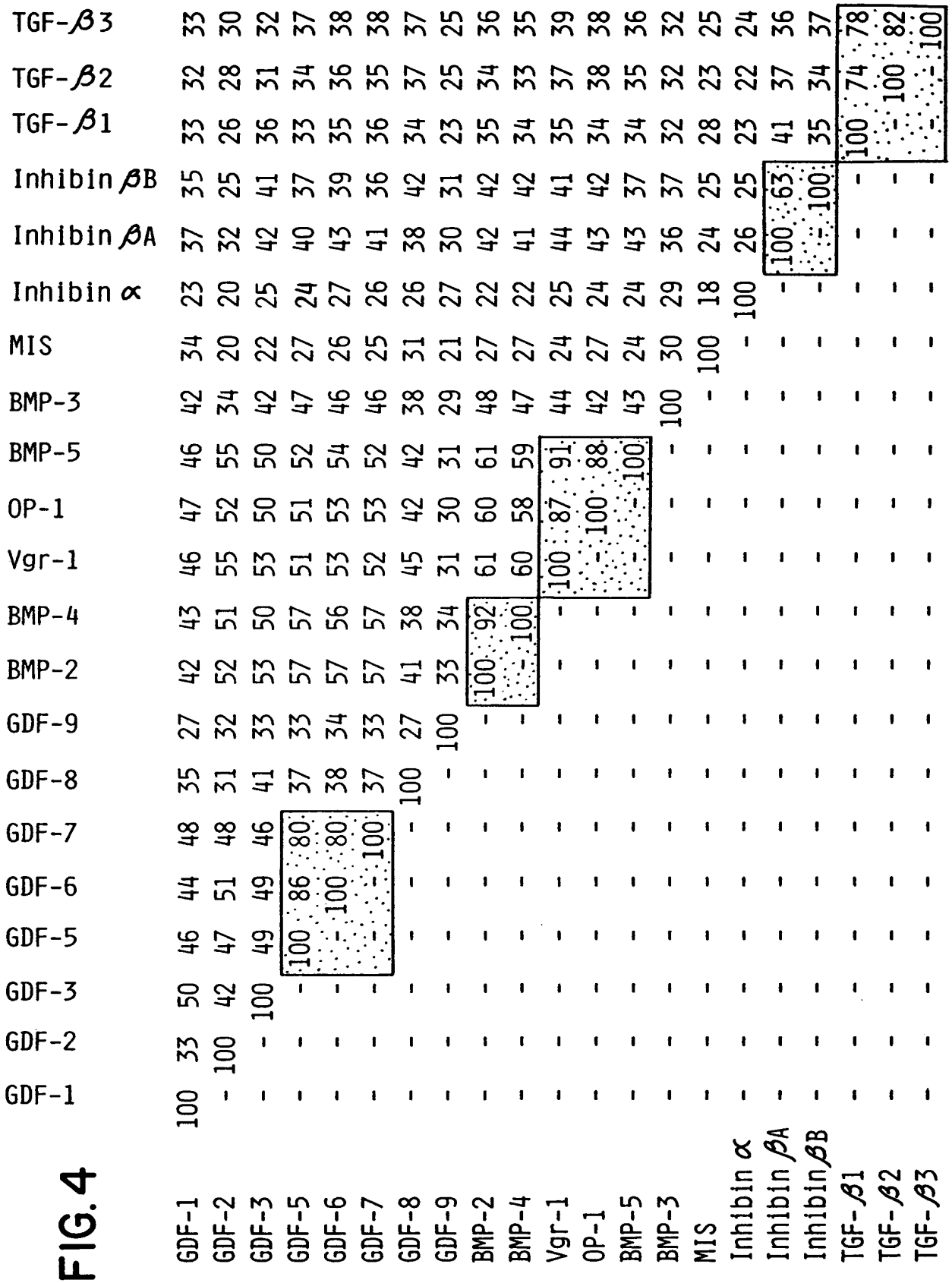
GDF-1
GDF-2
GDF-3
GDF-5
GDF-6
GDF-7
GDF-8
GDF-9
BMP-2
BMP-4
Vgr-1
OP-1
BMP-5
BMP-3
MIS
Inhibin α
Inhibin βA
Inhibin βB
TGF-β1
TGF-β2
TGF-β3

FIG. 4